

Product datasheet for KN209466RB

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CD26 (DPP4) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA: CD26 Symbol: Locus ID: 1803

KN209466G1, CD26 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN209466G2, CD26 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN209466RBD, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

Disclaimer: These products are manufactured and supplied by OriGene under license from ERS. The kit is

> designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the

experimental process.

RefSeq: NM 001935 UniProt ID: P27487

Synonyms: ADABP; ADCP2; CD26; DPPIV; TP103

Summary: The DPP4 gene encodes dipeptidyl peptidase 4, which is identical to adenosine deaminase

> complexing protein-2, and to the T-cell activation antigen CD26. It is an intrinsic type II transmembrane glycoprotein and a serine exopeptidase that cleaves X-proline dipeptides from the N-terminus of polypeptides. Dipeptidyl peptidase 4 is highly involved in glucose and

insulin metabolism, as well as in immune regulation. This protein was shown to be a functional receptor for Middle East respiratory syndrome coronavirus (MERS-CoV), and protein modeling suggests that it may play a similar role with SARS-CoV-2, the virus

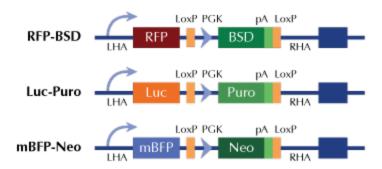
responsible for COVID-19. [provided by RefSeq, Apr 2020]





Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter